

THE TECH

VOL. XXVIII. No. 58

BOSTON, MASS., FRIDAY, MARCH 19, 1909

PRICE THREE CENTS

THEODORE PARKER ELECTED CAPTAIN

**Brilliant Player of Past Two
Seasons To Lead
Basketball**

REVIEW OF SEASON

**Institute Team Has Played Six-
teen Games Won Nine and
Lost Seven**

Theodore Bissell Parker 1911, has been elected captain of the Institute basket-ball team for the season of 1909-10. Parker comes from Wellesley, Mass. While there he played on the local high school basket-ball, football, baseball and tennis teams.

At the Institute he has pulled on both 1911 tug-of-war teams, played on the 1911 baseball team last spring, and on the varsity tennis, and basket-ball teams.

On the basket-ball team he has won especial recognition on account of his brilliant playing at centre and forward. He was recently picked by Pat Hehir for the position of centre on the All New England team. Hehir is an authority on basket-ball, and has umpired many games this winter for Wesleyan, Holy Cross, Williams, Technology, Dartmouth and other New England colleges. To Parker's credit it may be said, that, with the exception of the New York University game, he has outscored his opponents in every game this winter.

Technology played a total of 16 games for the season, winning nine and losing seven. The men who composed the team were: Capt. E. M. Wentworth 1909, T. B. Parker 1911, F. G. Taite 1909, A. T. Bennis 1912, G. R. Lord 1910, A. F. Kendrick 1912, and Manager W. B. Margraves 1910.

A complete resume of the season is published below:

M. I. T. 26-Dartmouth 22; M. I. T. 19-Harvard 12; M. I. T. 28-Tufts 15; M. I. T. 30-Williams 25; M. I. T. 43-Lowell Textile 14; Wesleyan 33-M. I. T. 20; M. I. T. 14-Manhattan College 10; College of the City of New York 24-M. I. T. 18; New York University 43-M. I. T. 14; M. I. T. 16-Brown 10; Tufts 16-M. I. T. 13; M. I. T. 9-Holy Cross 7; Dartmouth 28-M. I. T. 19; Rhode Island State 28-M. I. T. 19; M. I. T. 47-Lowell Textile 8; New Hampshire State 30-M. I. T. 21. Total: M. I. T. 357—Opponents 325.

This has been one of the most successful seasons that an Institute basket-ball team has ever gone through, and the prospects are bright for another successful season under Parker's leadership, as none of the team will leave the Institute this June.

BULLETIN BOARDS

Recently small strips have been placed on the new bulletin boards. These are for the benefit of those who do not desire to use tacks. If posters are obtained of the exact height of the rectangles, they can be easily inserted in the slots by a slight bending.

It would be great aid and saving of time to the bulletin board committee if the organizations who put up their posters would also in so far as possible remove them from the boards.

The old bulletin board for small notices in Rogers corridor has been ruled into small five-inch squares for small notices. The same rules will apply to this board as at present apply to the small board in the Union. Posters must be uniform in size, neatly printed, and dated. All posters at present on the board will be removed within a week, unless they conform to proper regulations.

SECOND STAGE IN HISTORY OF PLANET

**Prof. Lowell in Fourth Talk
Describes Paleozoic
Conditions**

APPEARANCE OF LIFE

**Decline of Planet Traced By
Spectrograms and
Lantern Slides**

The second half of cosmic evolution, the loss of heat by the planet, the peculiar surface conditions accompanying it, and the origin of organic life, formed the subject of Prof. Percival Lowell's fourth lecture on "Cosmic Physics," given in Huntington Hall, yesterday afternoon.

Prof. Lowell contrasted the physical and chemical changes which set in after the planet has reached its maximum temperature and has begun to cool, the latter, though resulting from perfectly natural laws, are nevertheless, quite characteristic of each planet. Thus the oceans and meteorological phenomena of our earth are peculiar to it, and "could we light on Venus or Mars," declared Prof. Lowell, "we should find conditions very different."

But even more marvelous than the physical processes are the chemical, or molecular changes. For one product of these is man himself, with his powers of thought, retrospection, and intelligent reasoning.

The temperature of a planet determines its present state in the process of evolution. The hotter ones are at an earlier stage than the cooler ones. Thus Jupiter, which because of its large mass, has not yet cooled off to the same extent as our globe, furnishes us with an example of a planet which has not evolved as far as the earth.

The spectroscope enables us to trace
(Continued on page 2.)

STATISTICS OF SHOW

**Total of Eighty Three Men Con-
nected With the Production**

With the poster out today, and only four weeks remaining before the curtain rises for the first performance, everybody connected with the Tech Show is busy as can be trying to make this year's production better than any previous one. It is the verdict of all who have seen the poster that F. A. Burton 1909, has good reason to congratulate himself on producing such a splendid design. Burton is now making the design for the souvenir programme of the Show.

There are 83 men, including managers, cast, lyric and music writers, connected with the Show. Of this number 30 are freshmen, 22 sophomores, 16 juniors, and 15 seniors. Although the seniors have only one representative in the chorus, eight of the 19 principals are 1909 men. The freshmen and sophomore class share the honors in the dancing sextette, as each class is represented by two men, the other two men belonging to 1909 and 1910 classes, respectively. Up to the present six men have written lyrics, four being freshmen, one a senior, and one a junior. Two freshmen, two sophomores, one senior and one junior compose the staff of music writers. The 83 men connected with the Show come from 20 different States, and one foreign country. There are eight men in the cast who are over six feet tall, and eight who average about five foot two. Incidentally one member of the dancing sextette boasts of having lost 12 pounds up to date.

The schedule of the Show as arranged thus far is as follows: April 19, performance at the Academy of Music, Northampton; April 20 and 22, matinees at Hollis Street Theatre, Boston. One or two more trips will be taken and announced later.

RABBI FLEISCHER AT UNION TONIGHT

**For Third Time This Year
Eminent Lecturer Is
Scheduled**

TO DISCUSS CHARTERS

**Will Give Authentic Account of
The Proposed New Charter
Of Boston**

For the third time this year Rabbi Fleischer, of the Temple Israel, is billed to speak at a Friday evening entertainment. The first time Dr. Fleischer was unable to be present, the second time there was such a small attendance on account of the Dartmouth basket-ball game that the talk had to be postponed. On this the third attempt, a success ought to result.

The subject of Dr. Fleischer's talk is to be "City Charters." Dr. Fleischer is well known as a distinguished lecturer around Boston, and in fact throughout the country. He has travelled extensively, and his public-spiritedness is shown in the manner in which he has served the city as a member of the educational board.

On account of the failures of the two previous attempts, the management will expect a large attendance, and will provide for one. Dr. Fleischer deserves a generous support, as he is a particularly busy man, and he should be given a courteous welcome for the sacrifice which he is making of his time. Students will be well repaid who attend the lecture.

EXETER CLUB DINES

Last night the Exeter Club held a dinner at the Hotel Napoli. This is the second of the series of dinners being held. There was a large and enthusiastic attendance. As it was an informal affair, no distinguished speakers were present.

Dinner was served at 7 o'clock, and a smoke talk followed. Plans were discussed for the betterment of the club, but no definite action was taken. The party broke up about 10.30 o'clock.

TECHNIQUE FINISHED

**Work of All Departments Is Now
Ready for the Printer**

Work on Technique 1910, has finally been completed. All the work in the various departments has been finished and proofs read, and it is now in shape for the final printing. The bulk of the work on Technique was finished two weeks ago, before the editor-in-chief left the Institute, and as soon as the engraver finishes the cuts, the book will be sent to press.

Many new features will appear in this year's Technique. The principal ones will concern the paper, binding, and mechanical details of publication. Some departments prominent in past Techniques have been cut down, and other enlarged, it having been the intention of the Board of Editors to thus bring out a Year Book that will be successful both on account of its excellence, and because of its being a pioneer in several lines of Year Book work.

PROF. DEWEY A TRUSTEE

Davis R. Dewey, professor of economics, at the Institute, was appointed Wednesday by Governor Draper a member of the Board of Trustees of the Massachusetts Agricultural College, to succeed the late Carroll D. Wright. Professor Dewey is in charge of the department of economics and statistics at Technology.

CROSS-COUNTRY DINNER TOMORROW

**Dr. J. A. Rockwell 1906 Is
To Be The Principal
Speaker**

HARE AND HOUND RUN

**Will Be Held in Waban—Kanaly
Calls the Course Best
About Boston**

Waban is to be scene of this Saturday's regular hare and hound run. This popular place furnishes, according to Coach Kanaly, the best course that is to be had around Boston. The shower baths of the Waban School are to be at the disposal of the runners, and another large attendance is expected. W. C. West 1911, will probably be one of the men to lay the course, which is about four and one-half miles in length. The squad will be divided into two divisions, one of slow and one of fast men, in order that none may feel the lack of companionship. The train for Waban will leave Trinity Place at 2.09 P. M.

Directly after the run a cross-country dinner will be held in the Union, at six o'clock. The hour has been set early in order that the men may come directly from Waban and not have to keep their appetites waiting. Anyone interested in running, whether he is a cross-country man, track man, or only an interested spectator, is invited to attend this dinner.

Dr. J. Arnold Rockwell 1896, will be the principal speaker of the evening. Dr. Rockwell, in his day, was one of the best quarter-milers that the Institute ever had, and has shown his loyalty to Technology and her athletes ever since. Recently he has offered the Rockwell Cup for the quarter mile event at the spring meet. The cup is now on exhibition in the Union with two others. This cup is to become the permanent trophy of the winner of the event, and will be replaced each year. Dr. Rockwell is on the Advisory Committee, and has served there for a number of years. His talk should prove full of interest to every Tech man.

Besides Dr. Rockwell, Captain C. W. Gram 1909, of the track team, and Risdale Ellis 1909, who led the cross-country team through its recent successful season, will also speak.

Elmer Jacobs 1910, the present captain of the cross-country team, will act as toastmaster for the evening.

BUILDING OF ROADS

Chemistry has gradually assumed a very important position in up-to-date road building. This was brought out forcibly by Dr. Cushman, assistant director of the office of public roads in the U. S. Department of Agriculture, in his talk to students and instructors of chemistry. A decade ago it was thought that any rock was good for road building. Now, the chemical composition of all material used is carefully considered, although but few chemists thoroughly understand the subject as yet. The talk was illustrated by many views of roads of this country, and some of France.

CALENDAR

FRIDAY, MARCH 19.
8.30 A. M. Tech Show Foster out.
8.00 P. M. Rabbi Fleischer speaks at Union.
SATURDAY, MARCH 20.
2.09 P. M. Hare and Hounds squad leave Back Bay Station for Waban.
6.00 P. M. Cross-Country Dinner at Union.
SUNDAY, MARCH 21.
6.45 P. M. Y. M. C. A. Meeting in Union.
MONDAY, MARCH 22.
3.00 P. M. Track Work at Field.

THE TECH

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Friday, March 19, 1909.

Another record cross-country squad is expected Saturday, but the track team is lacking in sprinting material. Two weeks ago Capt. Gram asked for more track men. If every man who is physically able would do some work in this direction, Technology's chances in the New England Intercollegiate would be greatly bettered.

Subscription papers have been sent out from the office of the track manager to collect money to send the Tech champion relay team to the annual Penn Relay Carnival. Since this is practically the only thing that the track team asks from the students of the Institute, which is not the case at other colleges. For this reason the movement should be backed with the traditional Institute spirit. Let every loyal under-graduate respond with as large a sum as possible!

The track management wishes to urge those candidates who intend coming out for track work this spring, to do so immediately, as there remains little more than three weeks before the annual spring games. Due to the cups which have been awarded by interested alumni to the winners in the 120-yard high hurdles, the 440-yard dash and the one mile run it is expected that more enthusiastic competition will be shown.

As yet few men have shown up for the weight events, and interest in this line of work is the easiest way to make the team. On Tuesdays and Thursdays the men meet in front of Lowell Building, while on Saturday, Coach Kanaly is at the Field to assist them.

The Field is open every afternoon and there is a chance for every one in any event if he will do his work faithfully and consistently.

COSMIC PHYSICS

(Continued from page 1.)
the process of decline from the large planets, where, comparatively speaking, it has only begun, down to the smaller ones in which it is nearly complete. At the very bottom of the scale, however, are the meteorites, whose mass is so slight that they cool off in a very short time, and wander through space cold and lifeless, only to revive again under the intense heat generated as they plunge into our atmosphere.

In closing, Prof. Lowell pictured the surface conditions on the earth during paleozoic times. All evidence points to the presence in the atmosphere of a large excess of water vapor, due to evaporation from the heated ocean. The earth was still very warm, but not much heat or light penetrated from the sun because of the dense clouds filling the upper atmosphere. The conditions were perfect for the genesis of life.

At the recent automobile show held in Mechanics Hall, the exhibit of the Panther Automobile Company attracted more than ordinary attention.

Paul E. Thompson, 1910, was one of the designers who brought the car to its present state of development. Thompson also acted as factory representative at the Show.

COMMUNICATION

The class of 1912 has already shown what they have been able to do in the field of athletics, by winning Field Day, and by their excellent showing at the Fall and Indoor Meets. On the football field the 1912 team has defeated the Sophomores, although the victory was won by the sensational playing of Captain Eicher during the last few minutes of play, and although beaten in the relay race at the Field, the showing of the track men at the Indoor and Fall Meets compensates for the losing of the relay race. Basket-ball fared the worst of any of the sports at the hands of the Sophomores, and it is now time for the Freshmen to get out, as soon as the call is issued, for the first base ball practice of the season, to show 1911 what they can do in that line.

The team which can best represent the class of 1912 will be one picked from the best base ball players of the class, so it is up to every fellow in the class who ever saw a base ball, ever had on a base ball glove, or ever caught a ball, to come out for the team, and to come out on the first call of the season. Any fellow who is not picked for the team should feel glad to have helped the 1912 class by his showing of class spirit, and those fellows who are picked will, of course, have the best chance to show their class spirit still further by playing their best for the team.

Now is the time to go upstairs and get out those bats, balls and gloves that you put away last year. Remember, NOW.

J. I. MURRAY 1912

DANCE ORDER FOR PROM

Dance orders for the Junior Prom have been printed and are ready for distribution at the Cage. The Prom will be held at the Hotel Somerset, Wednesday, April 21. The order of dances is as follows:

1. Waltz; 2. Two-Step; 3. Waltz; 4. Two-Step; 5. Waltz; 6. Waltz; 7. Two-Step; 8. Waltz; 9. Two-Step; 10. Waltz; 11. Two-Step; 12. Waltz—Intermission—13. Waltz; 14. Two-Step; 15. Waltz; 16. Two-Step; 17. Waltz; 18. Waltz; 19. Two-Step; 20. Waltz; 21. Two-Step; 22. Waltz; 23. Two-Step; 24. Waltz. Extras—1. Caprice; 2. Barn Dance; 3. Duchess; 4. Schottische; 5. Pan. American; 6. Barn Dance.

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TECHNOLOGY CLUB

At the Technology Club on Tuesday evening, March 23, will be held the eighth Smoke Talk of the season. Considerable interest was shown in flying machines at the recent talk by Prof. Rotch, and for this reason Mr. A. A. Merrill has consented to give a more technical talk on the subject. This will be entitled the "Discussion of the Theory and Practice of Flying, Treating of Gliding, Soaring, and Dynamic Flight." The talk will be illustrated.

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COURSE I NOTES

Prof. Russell Preparing Manuscript for Book on Hydraulics

During the mid-year vacation, J. E. Garratt and A. R. Cullimore, assistants in the Civil Department; A. T. Hinckley 1908, of the Chemical Department; A. L. Harding 1910, and J. A. Holbrook 1910, students in the Civil Engineering Department, spent ten days on a snow-shoe trip in the White Mountains. Ascents of the lower peaks around Jackson, including Wild Cat, were made, and on Feb. 4th Mount Washington was climbed. Thermometer and barometer readings were taken on all the summits for use in the Civil Engineering Department.

Prof. G. E. Russell is preparing manuscript for a text-book on Hydraulics, to appear some time early in the summer. Its basis is a set of lithograph notes which have been used in Institute courses during the past two years. The purpose of the author is to present to the teaching profession a book primarily written as a text-book, but so filled with reference as to be of value to the practising engineer. The subject matter includes a discussion of hydrostatics, and all the more important parts of hydrodynamics. No attempt will be made to introduce abbreviated, and consequently incomplete, treatment of hydraulic motors and machinery, as the author believes that such matter needs to be handled in a separate volume.

RESEARCH LABORATORY

Albany Street Station Outgrown
New Station is Desired

Although the Sanitary Research Laboratory and Sewage Experiment Station at Albany Street has been in existence but four years, the present quarters have already been outgrown, and the work can be further continued only under restricted conditions. Professor Winslow, in a recent report, writes:

"The time has now come to put the work of the Sanitary Research Laboratory on a broader and more permanent basis. Work with our present Albany Street plant can be continued much longer only under serious limitations and disadvantages. The officers of the station greatly desire that it may be possible during the coming year to secure a more favorable situation for the conduct of these investigations, as well as one in which the principal laboratory work could be brought within the walls of the Institute itself."

The plant at Albany Street is considered by experts to be the best of its kind in the world. Especially has its work upon trickling filters and disinfection of sewage attracted wide attention all over the country. The particular plan developed at the station has been largely through the investigations of Professor Phelps of the Institute faculty.

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GRADUATE STUDENTS

There are now six graduate students in the Department of Geology. Two of these are candidates for the degree of Ph.D., one of them being admitted to the candidacy last month. Two of the others are candidates for the degree of M. S. Mr. Clapp and Mr. Camsell are connected with the Geological Survey of Canada. Mr. Camsell being a permanent member of the staff. During the past summer Mr. Camsell investigated the gold deposits of Camp Headley, B. C., and the coming summer is to investigate the mineral resources of the Tulamun district of B. C.

Mr. Clapp began last summer a geologic and topographic survey of Vancouver Islands, and will continue the work next summer. He was assisted in the field last summer by Mr. K. G. Chipman, a graduate of the Institute of Technology in the class of 1908. Mr. Chipman will have charge of the topographic work next summer, and Mr. J. A. Allan, another member of the department and graduate student, will have charge of a third party on the island doing detailed geological work.

Mr. Roy H. Allen, Course III, '05, has returned from Mexico to begin graduate work in Mining geology. Mr. Allen, since graduation has spent most of his time in Mexico, and for the last year and a half has been manager of the Sierra Plata Properties in Chihuahua. He has begun work with a view to possibly becoming a candidate for a doctor's degree.

NOTICES

C. E. SOCIETY.—Meeting Wednesday at 4.15, in 11 B. Mr. Leonard will address the Society.

Will the person who took the proofs of the Musical Clubs from the Cage please return them? They are of no value to anybody but the members of the clubs.

Candidates for assistant manager of the track team for 1910 will please leave their names at the Cage for either the Manager or Assistant Manager.

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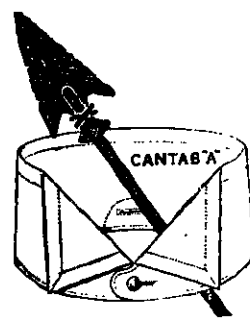
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